LORD, Lieutenant Sydney N. = Michigan Agricultural College, December 1918 (035)

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Michigan Agricultural College

EAST LANSING

DEPARTMENT OF BACTERIOLOGY AND HYGIENE

December 13, 1918.

From Lieut. S. N. Lord, B.S.A.(Toronto)
Instructor in Bacteriology and Fellow in Research
Dept. of Bacteriology: Michigan Agr. Coll. U.S.A.

To President Faulkener,
President of University of Toronto,
Ontario, Canada.

Dear Doctor Faulkener:

I am taking the liberty of writing you and asking for your assistance. Graduating May 1918 I attended convocation in Uniform and was graceously entertained after the ceremony at year house where you kindly promised on meeting myself and several other invalided officers, that you would help us whenever you could, so I am now taking advantage of your promise.

Since I saw you last I secured this position and held it satisfactorily until now but first I must leave because of personal reasons herein outlined.

One of my two brothers was killed in France in July six months after I was WOUNDED. The shock was so great that my dear Father died from its effects.

My home is in Manchester, England and I returned on a flying visit last August to try to help comfort my Mother. Meanwhile my other brother, a boy of 19 was in France and November 1st 1918 the poor boy was mortally wounded and died last week, so you will see I must throw up my career here and go home for my poor little mother's sake.

Do you think you could find time to help me get a position in Bacteriology or Pathology at the Victoria University, Manchester, the Public Health laboratory for some Agricultural College; there might be one in the vicinity. I am earning $1500.00 now and had promised to take over Rust control work there next summer at same salary plus expenses.

Besided my teaching experience here, in general Bacteriology of water, milk, foods, and sewage, I am acting Pathologist to the Military Detachment here and have conducted the Biochemical and Bacteriological Diagnostic tests as well as some 15 Autopseys and will send you a synopsis of the work if you wish. My other military experience bears on my work also.

To President Faulkener 12/13/18

I do not like to ask you so much as you are such a busy man but in my extremity, I know you would consider my case.

President Creelman, Professor DanJones and Professor Hewitt of O.A.C. Guelph, and President Kedzie and Dr. Ward Giltner by whom I am employed I feel sure will give me good references if you required them.

I hope to sail about the 1st of January and if you can manage to give me a short interview I will pass through Toronto about December 26th to 29th as you might select.

Thanking you in antisipation, I remain

Yours very Respectfully

Sydney. N. Lord. Lieut.

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December 18th, 1918

It gives me much pleasure to state that Lieutenant Sydney R. Lord, S.S.A. of the University of Toronto has been highly recommended to me by representatives of the Ontario Agricultural College, which is affiliated with this University, as being in every way suitable to undertake a teaching position in Bacteriology.

Lieutenant Lord enlisted for active service and was badly gassed in 1916. He returned to Canada and graduated in the University of Toronto in May 1918. Since that time he has been Instructor in Bacteriology and Fellow in the Research Department of the Michigan Agricultural College. Here his career seemed to be opening up brightly before him, but owing to the death of his two brothers in the war resulting in other family troubles he has found it necessary to return to England. I am informed by those who know him best that he is a thorough gentleman and is very deserving of a position that would give opportunity to his scientific attainments.

His general course in Bacteriology in the Ontario Agricultural College consisted of a general grounding in Agricultural Bacteriology, including bacterial cultivation methods, microscopic methods, fermentation, systematic and physiologic bacteriology, bacterial examination of air, water, soils and foods, dairy bacteriology and infectious diseases of animals and plants. In his thesis he showed initiative in the matter of research.

President.

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December 18th, 1918

Lieutenant S. A. Lord,
Michigan Agricultural College,
East Lansing, Mich.

Dear Lieutenant Lord:

I am sending you a certificate which is based largely on one from Professor Jones of Guelph, and I hope that this may be of some service to you. Unless you were intending in any case to come to Toronto there is no reason why you should do so merely in order to get this certificate, but if you happen to be here between the 26th and 29th I shall be glad to see you, as in the mornings I shall probably be in my office.

I am,

Yours sincerely,

President.

DEPARTMENT OF BACTERIOLOGY

D. H. JONES, B.S.A.
PROFESSOR

T. H. LUND, B.S.A.
LECTURER

E. L. DAVIES, B.S.A.
DEMONSTRATOR

G. C. CREELMAN, B. S. A., LL. D., PRESIDENT.

GUELPH, CANADA,

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16 Dec., 1918.

President Falconer,
Toronto University,
TORONTO.

Dear Sir,-

I have just received a communication from Lieut. Sydney R. Lord, who is at present on the staff of the Department of Bacteriology and Hygiene at Michigan Agricultural College, East Lansing, Michigan, asking me if I would send you a few lines relating to his character, experience and training while a student at the Ontario Agricultural College. I understand that he is writing you for a letter of recommendation to be used by him in England to assist him in gaining a position there in bacteriological work. I presume he will notify you of the painful circumstances which necessitate his return to England, his native land.

I am pleased to be able to say that having known Lieut. Lord during his four-year course as a student at the College here, he ever showed himself a gentleman in the best sense of the word, being honest, upright, straightforward and dependable at all times.

When war broke out he was in his Third Year at College. He was one of our first batch of volunteers for active service and was badly gassed in the 1916 Somme offensive.

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On being invalided home he resumed his course at the Ontario Agricultural College, taking his final year in 1917 and specializing in the Bacteriology Option.

His course here in the Department of Bacteriology consisted of a general grounding in Agricultural Bacteriology, including bacterial cultivation, methods, microscopic methods, fermentation, systematic and physiologic bacteriology, bacterial examination of air, water, soils and foods, dairy bacteriology and infectious diseases of animals and plants.

In his thesis work he showed considerable initiative and resourcefulness, particularly in the designing and fitting up of apparatus for original research.

The condition of his health, as a result of his gassing experience, interfered to some extent with his studies. However, he showed great pluck and perseverance and was very diligent in his work and passed very creditably in the final examination.

He was subsequently appointed to the position which he now holds of assistant in the Department of Bacteriology and Hygiene at the Michigan Agricultural College, where I understand he has given every satisfaction in his work.

Lieut. Lord's case is a very deserving one, and I can sincerely recommend him to your notice as one worthy the help

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which a letter of recommendation from you may be to him.

Yours very sincerely,

D. H. Jones

Brief Resume of Science studies covered by
By Bacteriology Option for the
Degree of B.S.A.Toronto.

Lieut. S. N. Lord, B.S.A.

Born September 4th, 1994, commenced my education under private tutor at seven years of age and continued so until 1903. In that year entered the private school at Colwyn Bay, North Wales, under Principal Frank Brownsword, U.S. an able scholar and a naturalist, with whom I remained four years.

In 1907 entered Bowden College, Bowden Cheshire, England, and studied there until May 24th, 1912. The course of study pursued there leads up to the entrance examination to the Oxford or Cambridge University, which course I completed, but did not take the final examination on account of ill health(asthma). If I had I would have been eligible for the Oxford or Cambridge University course. This course corresponds to the American High School. And during the year 1911 I took the whole of the work of the two years course in Medicine prescribed of Victoria University under the private tutorship of Dr. F. N. Cooper.

In May, 1912, I went to Canada and in the fall of the same year entered the Ontario Agricultural College, Guelph, Ontario, Canada.

During the first year of study the following scientific studies were covered, among others.

Botony-The morphology and ecology of root, stem, leaf and flower, with laboratory practice in the identification of common plants and weeds.

Chemistry-(3"L" fall and winter terms)inorganic chemistry, laboratory experiments with lectures.

Dairy Husbandry-Lectures (24 fall term) Farm dairy work, the dairy herd, the production of milk, the handling of milk and cream, including town and city milk and cream trade, milk-testing in the farm dairy.

Practical work- Practice in testing milk with lactometer and Babcock test, running hand cream separators, ripening cream.

Geology-(2 "L" and 1 "Lab". winter term) a short course of ten lectures.

Horticulture- (2"L" and 1 "Lab." winter term).

Physics-(2"L" and 1 "Lab." fall term)(2"L".and 1"Lab."winter term) Elementary drainage, elementary Hydrostatics; Soil Physics; Mechanics.

Veterinary Science and Practice(2"L" and 1 "Lab" fall term)
(2"L" winter term.)
Anatomy-course of lectures on the most important bones, joints, ligaments, muscles and tendons, the digestive, respiratory,urinary and genital organs, the circulatory and nervous systems, the skin and its modifications, of domestic animals.

B.
Materia Medica: The properties, actions, uses and doses of medicine for the prevention and cure of the ordinary diseases of farm stock.
C. Stable Lectures: the construction, drainage and ventilation of stables and the general care of horses, harness, carriage, etc.
D. Horse judging: Ten lectures with practical instruction.

Zoology:(2 "L" and 1"Lab." winter term) The chief divisions and subdivisions of the animal kingdom and the leading characteristics of each, with laboratory work and particular attention to typical forms, especially those which have an influence in agriculture and horticulture. Also informal lectures introductory to the study of insect life.

The following summer I was employed by Dr. C. Gordon Hewitt, Dominion Entomologist, Ottawa, Canada, as student assistant, where I conducted various biological experiments.

In the fall of 1913 I returned to Guelph, May, 1914, I obtained my Diploma of Association to the O.A.C. In the summer I was again employed by Dr. C. Gordon Hewitt on experimental work, chiefly entomological in character. During my second year's work the following subjects were dealt with:

Second Year.
(For Associate Diploma)

Bacteriology: Course of twenty five lectures and demonstrations during the winter term on the nature of bacteria and their relation to general agriculture, dairying and plant and animal diseases.
Text. Agricultural Bacteriology (Marshall and Hastings)

Botany: (2"L" and 1 "Lab." fall and winter terms) Structural, systematic, elementary, histological and physiological botany with laboratory practice in the identification of weeds and weed seeds and grasses, also economic botany, including smuts, rusts, mildews, etc.

Chemistry: (2"L" and 2"Lab" fall terms)(3"L" and 2"Lab." winter terms)
A. Organic Chemistry. B. Insecticides and Fungicides. C. Animal Chemistry-Lectures and laboratory nutrition and digestibility. D. Soil Chemistry-Plant growth, soils, manures, fertilizers, characteristics of farm crops, etc.

Entomology: (2"L" and 1"Lab." fall term. The anatomy, metamorphosis and classification of insects, beneficial insects, noxious insects, insecticides, etc. Excursions for collection of specimens in fall months.

Physics: (1"L" and 1 "Lab. " fall term) (2"Lab" and 1 "L". winter term) Surveying and drainage, electricity and magnetism, rural engineering, farm water supply, well construction, dams, siphons, hydraulic ram, gravity systems, pneumatic systems, installation in houses and barns, measurement of water flow in streams, water power, flow of water in pipes, sewage disposal, ventilation.

Veterinary Science, (2"L" fall term)(2"L" and 1 "Lab". winter term.) A. Pathology, the causes, symptoms and treatment of the ordinary diseases and ailments of farm stock. B. Obstetrics, The care of breeding animals with the causes, symptoms and treatments of diseases and accidents incident to the parturient state. C. Horse judging:Lectures with practical instruction.

Terms:

In the fall of the same year I returned to college and in November, the 10th, enlisted in the S.A.T.C. but also continued my regular studies and completed my third year's work in March and enlisted in the 34th Battalion (Infantry) as a Private.

The course of study pursued in the third year embraced the following:

Botany: (2"L" and 2 "Lab". fall and winter term.) A. Cryptogamic. B. Physiology and Histology-Plant Physiology.

Chemistry: (3"L" and 1 "Lab" fall and winter term) A. Historical. Theoretical. B. Inorganic Chemistry, C. Qualitative Analysis, comprehensive laboratory course during the fall term. D. Organic Chemistry.

Entomology: (2"Lab" and 1"L." fall and winter term) A. Economic Entomology-detailed study of injurious and beneficial insects and the best methods of preventing the ravages of the former. B. Systematic Entomology- a laboratory and lecture course in the identification and classification of insects.

Geology: Archean, Glacial, and Stratigraphical Geology and Physiography.

Physics: Heat, Meteorology, ventilation and cold storage.

Bacteriology: ("2"Lab" fall term) Bacteriological technique, cultural studies of pyogenic cocci, yeasts, and bacteria, microscopic examinations, staining methods, bacterial analysis of milk, water, soil, diseased tissue, etc.

August, 1917, I was taken from the front and resumed my studies in Guelph, and in April, 1919, I graduated with the degree of D.S.A. from the University of Toronto, having specialized in Bacteriology the last two years. After a multitudinous course embracing the following subjects:

Majors:

BACTERIOLOGY. (12"L" and 6"Lab." fall and winter term.) A. Cultivation methods, Apparatus, principles of sterilization, preparation of culture media and various means employed in the cultivation of different types of micro-organisms by the examination of living cultures and various stained methods, preparation of morbid specimens, embedding of tissues and section cutting. C. Fermentation bacteriology, Micro-organisms of fermentation, enzymes, fermentation, alcoholic, acetic, lactic

butyric, ammoniacal, putrefactive, nitrification, dentrification, D. Systematic and Physiolotic Bacteriology, Chemical composition, nutrition, circumstances affecting growth, products of growth, chromogenic, zymogenic, toxic and pathogenic bacteria. Studies in symbiosis, metabiosis and antagonism. Studies in enzymes. E.Bacteriology, Relation of micro-organisms to tillage of the soil, management of the compost heap, bacteria and the farm water supply, disposal of sewage, bacteria and pure milk production. G. Infectious diseases of animals, Anthrax, symptomatic anthrax, actinomycosis, tuberculosis, glanders, tyhphoid fever, hog cholera, diptheria, fowl and insect disease, toxins and antitoxins, susceptibility and immunity, attenuation of virus, protective inoculation, serum-therapy. H. Dairy Bacteriology, the relation of micro-organisms to dairying, the fermentation of milk, pure culture system in butter and cheese-making, pasteurization and sterilization, the bacteriological analysis of milk, butter and cheese, sanitary milk production, diseases conveyed by dairy products.

Chemistry of fruits, vegetables and fermentations.

Botany: (2"L" and 2"Lab." fall terms).

Zoology: (2"L" and 1 "Lab" fall and winter terms) Animal physiology, The study of the functions and different organs and parts, lectures and demonstrations are given on the cell, blood circulation, respiration, digestion and absorption, secretion and excretion, general metabolism and animal heat and force.

Chemistry: Animal Chemistry/

Botany: A. Fungi and Plant Pathology. Laboratory course with occasional lectures in which are studied the injurious fungi affecting orchard, garden, green house and farm crops. B. Cryptogamic, Bryophetes and Pteridophytes.

Zoology: (2"L" and 2"Lab" fall terms)(4""L" and 4"Lab" winter terms) A. Invertebrate, aSystematic study of the lower animals with reference to structure, functions, development and relationship, the student using as types the amoeba, paramecium, vorticel, sponge,(commercial and grantia) fresh water hydra, corals, campanularian hydroid, tape worm, liver fluke, starfish, earth worm, cray fish, spider, grasshopper and muscel. Vertebrate. This course is chiefly a study of comparative anatomy, the student using as types the amphioxus, fish, frog, snake, turtle, pigeon and cat or rabbit. Economic. A lecture course on the identification, habits and life histories and economic importance of animals, giving special attention to Ontario forms. D. Vertebrates. Histology, a study of the animal cell, its multiplication and contents and the normal histology of the various tissues and organs of vertebrates with particular reference to Mammalia.

Chemistry: Animal Chemistry, Foods, their composition, and digestibility, food constituents, and their function. Physiological value of nutrients, selecting and compounding of rations.

Chemistry: Fruits, Vegetables and Fermentations.

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M I L I T A R Y E X P E R I E N C E

1. Enlisted November 10, 1914 S.O.T.C. O.A.C. Guelph Ontario Canada.

2. Re-enlisted March 6, 1915, Private 34th Battalion in Sanitary Corps.

3. April, promotion to rank of Lance Corporal in Sanitary Corps.

4. May, promotion to rank of Corporal in Sanitary Corps.

5. September, promotion to rank of Sergeant in Sanitary Corps.

6. February 1916, qualified at the Royal School of Infantry for rank of Lieutenant and was attached to 153nd Infantry.

7. August 1916, qualified for rank of Captain same school, and proceeded as Lieutenant with a draft to France.

8. September 1st, 1916, until November 29th went through the battles of the Somme, namely, Poziers, Courcellette, Martinpusch, Mucky farm, Contalmaison, International, Regina and Kenora Trenches.

9. October 6th slightly wounded and returned to duty.

10. November 29th seriously wounded and sent to Hospital in England.

12. Invalided to Canada, August 1917 and ultimately graduated at Toronto University and went to the Bacteriological Dept. M.C. College, Michigan, U.S.A.

13. Acted as Army Pathologist for the Military detachment of ~~12,00~~ 14,000 men.

14. Conducted bacteriological and biochemical tests and all Autopsies on men dead of pneumonia ~~etc.~~ in the Epidemic.

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Michigan Agricultural College

EAST LANSING

DEPARTMENT OF BACTERIOLOGY AND HYGIENE

December 13, 1918.

To President Faulkener,
University of Toronto,
Toronto Ontario, Canada.

Sir:

This is to certify that Lieutenant S. N. Lord was acting Pathologist during the year of 1917 to the 1st general Hospital, Cambridge, England, and conducted all the biological and biochemical tests and all the pathological laboratory work required by the institution of 1400 patients with the hightest degree of satisfaction to all.

for. H. Elliott. M.D.
Colonel,
Royal Army Medical Corps

Copy

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Michigan Agricultural College
EAST LANSING

DEPARTMENT OF BACTERIOLOGY AND HYGIENE

December 6th, 1918.

To the President of University of Toronto,
Ontario,
Canada.

Sir:-

This is to certify that Lieutenant S.N. Lord whilst acting Pathologist has successfully conducted and reported to our satisfaction the autopsys necessary and made all diagnostic tests, bacteriological and biochemical.

F. G. Bartchell

Captain.
U.S. Medical Corps.
S.A.T.C.